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# NOTICE OF ALLOWANCE AND FEE(S) DUE

27765

7590

10/16/2008

EXAMINER

ABRAHAM, ESAW T

ART UNIT PAPER NUMBER

NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION P.O. BOX 506 MERRIFIELD, VA 22116

2112 DATE MAILED; 10/16/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708.276	02/20/2004	Po-Wei Liu	REAP0050USA	2275

TITLE OF INVENTION: METHOD FOR DETERMINING INTEGRITY OF MEMORY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/16/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notifica	correspondence includired below or directed otherions	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of a) specifying a new corre	maintenance fees wil espondence address; a	l be mailed to the current nd/or (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for
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						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	R	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,276	02/20/2004	•	Po-Wei Liu	•	REAP0050USA	2275
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/16/2009
EXAM		ART UNIT	CLASS-SUBCLASS	٦	ΨΙΟΙΟ	01/10/2009
ABRAHAN		2112	714-733000	J		
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A PLEASE NOTE: Unit recordation as set fort (A) NAME OF ASSIGNAME OF ASS	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12" or more recent) attach ND RESIDENCE DATA 12" ess an assignee is ident in 37 CFR 3.11. Comp	unge of Correspondence "Indication form ned. Use of a Customer A TO BE PRINTED ON Third ified below, no assignee pletion of this form is NO	data will appear on the T T a substitute for filing ar (B) RESIDENCE: (CIT	o 3 registered patent a ively, the firm (having as a nagent) and the names orneys or agents. If no eprinted. The patent. If an assignee a assignment.  Y and STATE OR CO	of up to o name is 3  is identified below, the depuntary)	ocument has been filed for
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10/708,276	02/20/2004	Po-Wei Liu	REAP0050USA	2275	
27765 75	590 10/16/2008		EXAMINER		
NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION			ABRAHAM, ESAW T		
P.O. BOX 506 MERRIFIELD, VA 22116		ART UNIT	PAPER NUMBER		
		•	2112		
			DATE MAILED; 10/16/2008		

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 415 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 415 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
Notice of Allowability 10/708,276 LIU ET AL.		LIU ET AL.	
Notice of Allowability	Examiner	Art Unit	
	ESAW T. ABRAHAM	2112	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this apport or other appropriate communication IGHTS. This application is subject to	olication. If not includ will be mailed in due	ed course. <b>THIS</b>
1. 🔀 This communication is responsive to Amdt filed on 07/18/0	<u>08</u> .		
2. ☑ The allowed claim(s) is/are <u>1-30</u> .			
3. ☐ Acknowledgment is made of a claim for foreign priority un  a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do  International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE"	be been received. be been received in Application No cuments have been received in this of this communication to file a reply	national stage applica	
noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER		NOTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus		nion is delicient.	
(a) ☐ including changes required by the Notice of Draftspers		948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	· · · · · · · · · · · · · · · · · · ·	540) attaoned	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			∍ back) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>			Note the
Attachment(s)			
1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6.  ☐ Interview Summary Paper No./Mail Dat	te	
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date</li> </ol>	7. Examiner's Amendr	nent/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	ent of Reasons for Allo	owance
	9.		

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## **DETAILED ACTION**

Applicant's response was received July 18, 2008.

Claims 1-30 are allowed.

- Claim rejection under 112, 2<sup>nd</sup> paragraph and under 101 rejections are withdrawn

in light of amendments.

## **REASONS FOR ALLOWANCE**

1. Claims **1-30** are allowed. The following is an Examiner's statement of reasons for allowance:

Independent **claim 1** of the present application teaches, for example, A method for determining whether a memory is defected or has integrity under a plurality of operating environments comprising setting a plurality of operating environments respectively corresponding to variations in a condition to be tested; repeatedly testing the same memory having defective sections under each of the plurality of operating environments; recording a result of the testing step for each of the plurality of operating environments; and comparing the recorded results for each of the plurality of operating environments, wherein if the results are the same for each of the plurality of operating environments then the memory is determined to have integrity and if the results are different for at least two of the plurality of operating environments then the memory is determined to be defected.

The foregoing limitations are not found in the prior arts of record. Particularly, none of the prior arts of record teach nor fairly suggest, "setting a plurality of operating

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environments respectively corresponding to variations in a condition to be tested; repeatedly testing the same memory having defective sections under each of the plurality of operating environments; recording a result of the testing step for each of the plurality of operating environments; and comparing the recorded results for each of the plurality of operating environments, wherein if the results are the same for each of the plurality of operating environments then the memory is determined to have integrity and if the results are different for at least two of the plurality of operating environments then the memory is determined to be defected". Consequently, claim 1 is allowed over the prior art.

Dependent claims **2-10** depend from allowable independent claim and inherently include limitations therein and therefore are allowed as well.

## As per claim 11:

Independent claim 11 of the present application teaches, for example, A method for determining whether a memory is defected or has integrity, comprising testing the memory having defective sections under a first operating environment corresponding to a condition to be tested; recording a first result of the testing step under the first operating environment; testing the memory having defective sections under a second operating environment, wherein the second operating environment corresponds to a variation of the condition to be tested in the first operating environment; recording a second result of the testing step under the second operating environment; and comparing the first result with the second result, wherein if the first result is equal to the second result then the memory is determined to have integrity and if the first result is different from the second result then the memory is determined to be defected.

The foregoing limitations are not found in the prior arts of record. Particularly, none of the prior arts of record teach nor fairly suggest, "recording a first result of the testing step under the first operating environment; testing the memory having defective sections under a second operating environment, wherein the second operating environment corresponds to a variation of the condition to be tested in the first operating environment; recording a second result of the testing step under the second operating environment; and comparing the first result with the second result, wherein if the first result is equal to the second result then the memory is determined to have integrity and if the first result is different from the second result then the memory is determined to be defected". Consequently, claim 11 is allowed over the prior art.

Dependent claims **12-17** depend from allowable independent claim and inherently include limitations therein and therefore are allowed as well.

### As per claim 18:

Independent **claim 18** of the present application teaches, for example, A method for determining integrity of a memory with sections that are defective, the method comprising: repeatedly testing the memory having defective sections under a plurality of operating environments respectively corresponding to a given condition to be tested; recording a result of the testing step for each of the plurality of operating environments; comparing the results; and determining whether the results are consistent or inconsistent with one another; wherein the results correspond to the given condition, and if the results are consistent with one another the memory is determined to have integrity, and if the results are inconsistent with one another then the memory is determined to be defected.

The foregoing limitations are not found in the prior arts of record. Particularly, none of the prior arts of record teach nor fairly suggest, "recording a result of the testing step for each of the plurality of operating environments; comparing the results; and determining whether the results are consistent or inconsistent with one another; wherein the results correspond to the given condition, and if the results are consistent with one another the memory is determined to have integrity, and if the results are inconsistent with one another then the memory is determined to be defected". Consequently, claim 18 is allowed over the prior art.

Dependent claims **19 and 20** depend from allowable independent claim and inherently include limitations therein and therefore are allowed as well.

## As per claim 21:

Independent claim 21 of the present application teaches, for example, A method for determining whether a memory is defected or has integrity under a plurality of operating environments comprising setting a plurality of operating environments respectively corresponding to variations in a condition to be tested; repeatedly testing the same memory under each of the plurality of operating environments; recording a result of the testing step for each of the plurality of operating environments; and comparing the recorded results for each of the plurality of operating environments, wherein if the results are the same for each of the plurality of operating environments then the memory is determined to have integrity and if the results are different for at least two of the plurality of operating environments then the memory is determined to be defected.

The foregoing limitations are not found in the prior arts of record. Particularly, none of the prior arts of record teach nor fairly suggest, "repeatedly testing the same memory under each of the plurality of operating environments; recording a result of the testing step for each of the plurality of operating environments; and comparing the recorded results for each of the plurality of operating environments, wherein if the results are the same for each of the plurality of operating environments then the memory is determined to have integrity and if the results are different for at least two of the plurality of operating environments then the memory is determined to be defected". Consequently, claim 21 is allowed over the prior art.

Dependent claims **22-30** depend from allowable independent claim and inherently include limitations therein and therefore are allowed as well.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Esaw T. Abraham whose telephone number is (571) 272-3812. The examiner can normally be reached on M-F 8am-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jacques Louis-Jacques can be reached on (571) 272-6962. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/EA/

/Esaw T Abraham/

Examiner, Art Unit 2112

10/07/08